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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/695,939	10/30/2003	Akihiro Miyauchi	520.43241X00	6291	
	90 12/21/2006 ERRY, STOUT & KR	EXAMINER			
	EVENTEENTH STRE	HYUN, PAUL SANG HWA			
SUITE 1800 ARLINGTON, VA 22209-3873			ART UNIT	PAPER NUMBER	
ARLINGTON, V	A 22207-3013		1743		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
31 DA	YS	12/21/2006	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

-		Application No.	Applicant(s)				
		10/695,939	MIYAUCHI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Paul S. Hyun	1743				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence addre	ss			
WHIC - Exte after - If NC - Failu · Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we tree to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this comm D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 26 Se	eptember 2005.					
2a)□	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposit	ion of Claims						
4)⊠	Claim(s) 2-14 and 16-27 is/are pending in the a	application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
	Claim(s) is/are rejected.						
•	Claim(s) is/are objected to.						
8)⊠	Claim(s) <u>2-14,16-27</u> are subject to restriction a	nd/or election requirement.					
Applicati	ion Papers						
9)	The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-	152.			
Priority (	ınder 35 U.S.C. § 119						
, —	Acknowledgment is made of a claim for foreign  ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	)-(d) or (f).				
/-	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau	• • • • • • • • • • • • • • • • • • • •					
* See the attached detailed Office action for a list of the certified copies not received.							
		•					
Attachmen							
	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da					
3) Infon	mation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P 6) Other:					
гаре	r No(s)/Mail Date	o, L. Oniei					

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## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 2-8, 10-14, 17 and 20-26, drawn to a matrix of thermoplastic organic polymer, classified in class 435, subclass 299.1.
- II. Claim 9, drawn to an optical device comprising a matrix of organic polymer in contact with a second matrix of organic polymer, classified in class 356, subclass 929.
- III. Claim 16, 18 and 19 drawn to a method for manufacturing a matrix of thermoplastic organic polymer, classified in class 435, subclass 299.1.
- IV. Claim 27, drawn to a method for manufacturing a matrix of thermoplastic organic polymer, classified in class 435, subclass 299.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions (I, III, IV) and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs, modes of operation and intended use. Therefore, they cannot be used together.

Inventions III and IV are directed to related processes. The related inventions are distinct if the (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as

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claimed are not obvious variants. See MPEP § 806.05(j). In the instant case, the two groups of claims are directed toward distinct methods for producing a matrix of thermoplastic organic polymer. They comprise distinct steps that do not overlap in scope. Furthermore, there is nothing of record to show them to be obvious variants.

Inventions I and (III, IV) are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the matrix can be made from a method that is different from the methods of claim groups III and IV. The matrix of columnar micro pillars can be formed without a second matrix as recited in Group III or stretching as recited in Group IV.

This application contains claims directed to the following patentably distinct species:

- A. Claims 4 and 5 recite micro pillars wherein the diameter of the tip of the micro pillars is smaller than that of the bottom surface.
- B. Claims 6 and 23 recite micro pillars wherein the diameter of the tip of the micro pillars is bigger than that of the bottom surface.

The species are independent or distinct because the shape and the dimensions of the micro pillars are different:

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 24 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

A telephone call was made to William Solomon on 12/18/06 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not

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distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul S. Hyun whose telephone number is (571)-272-8559. The examiner can normally be reached on Monday-Friday 8AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on (571)-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PSH 12/18/06

**Technology Center 1700** 

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